IN THE CLAIMS:

1. (PREVIOUSLY AMENDED) A method of parametric design of an instrument panel support structure for an instrument panel in a vehicle comprising the steps of: selecting a vehicle body structure for the vehicle from a library stored in a memory of a computer system;

orienting an occupant within the vehicle body;

locating an instrument support structure relative to the vehicle body;

determining an input parameter, wherein the input parameter is a three dimensional coordinate defining the instrument panel support structure relative to the vehicle;

electronically generating a parametric design of the instrument panel support structure using the input parameter;

determining if the parametric design of the instrument panel support structure meets a predetermined criteria using a computer-aided analytical technique; and

modifying the input parameter if the parametric design of the instrument panel support structure does not meet the predetermined criteria.

- 2. (ORIGINAL) A method as set forth in claim 1 wherein the input parameter is a three dimensional coordinate for an attachment location of the instrument panel support structure relative to the vehicle.
- 3. (ORIGINAL) A method as set forth in claim 1 wherein the input parameter is a three dimensional coordinate for positioning a cross car support beam portion of the instrument panel support structure relative to the vehicle.

- 4. (ORIGINAL) A method as set forth in claim 1 wherein the input parameter is a three dimensional coordinate for positioning a knee bolster portion of the instrument panel support structure relative to the vehicle.
- 5. (ORIGINAL) A method as set forth in claim 1 including the step of using a computer-aided engineering analytical technique to determine whether the design of the instrument panel support structure meets a predetermined criteria.
- 6. (ORIGINAL) A method as set forth in claim 1 including the step of using a computer-aided human factors analytical technique to determine whether the design of the instrument panel support structure meets a predetermined criteria.
- 7. (PREVIOUSLY AMENDED) A method of parametric design of an instrument panel support structure for a vehicle comprising the steps of:

selecting a vehicle body structure for the vehicle from a library stored in a memory of a computer system;

orienting an occupant within the vehicle body;

locating a steering column relative to the vehicle body;

determining an input parameter, wherein the input parameter is a three dimensional coordinate defining the instrument panel support structure relative to the vehicle body;

electronically generating a parametric design of the instrument panel support structure using the orientation of the occupant, the location of the steering wheel, and the input parameter; comparing the parametric design of the instrument panel support structure to a predetermined criteria using a computer-aided analytical technique;

varying an input parameter to meet the predetermined criteria; and regenerating the parametric design of the instrument panel support structure.

- 8. (ORIGINAL) A method as set forth in claim 7 wherein said step of selecting an input parameter includes selecting an attachment location for attaching an upper attachment bracket portion of the instrument panel support structure relative to the vehicle.
- 9. (ORIGINAL) A method as set forth in claim 7 wherein said step of selecting an input parameter includes selecting an attachment location for securing a center support bracket portion of the instrument panel support structure relative to the vehicle.
- 10. (ORIGINAL) A method as set forth in claim 7 wherein said step of selecting an input parameter includes selecting an attachment location for securing an outer portion of the instrument panel support structure relative to the vehicle.
- 11. (ORIGINAL) A method as set forth in claim 7 wherein said step of selecting an input parameter includes defining a centerline location for a center portion of the instrument panel support structure relative to the vehicle.
- 12. (ORIGINAL) A method as set forth in claim 7 wherein said step of selecting an input parameter includes defining a centerline location for a driver side portion of the instrument panel support structure relative to the vehicle.

- 13. (ORIGINAL) A method as set forth in claim 7 wherein said step of selecting an input parameter includes defining a centerline location for a passenger side portion of the instrument panel support structure relative to the vehicle.
- 14. (ORIGINAL) A method as set forth in claim 7 including the step of using a computer-aided engineering analytical technique to determine whether the design of the instrument panel support structure meets a predetermined criteria.
- 15. (ORIGINAL) A method as set forth in claim 7 including the step of using a computer-aided human factors analytical technique to determine whether the design of the instrument panel support structure meets a predetermined criteria.
- 16. (PREVIOUSLY AMENDED) A method of parametric design of an instrument panel support structure for an instrument panel in a vehicle comprising the steps of: selecting a vehicle body style for the vehicle from a vehicle library stored in a memory of a computer system;

orienting an occupant within the vehicle body;

orienting a steering column within the vehicle body;

selecting a parameter for locating an instrument panel support structure within the vehicle body;

selecting a parameter for attaching the instrument panel support structure within the vehicle body;

selecting a predetermined condition for the instrument panel support structure within the vehicle body;

electronically generating a parametric design of an instrument panel support structure using the locating parameter, the attaching parameter and the predetermined condition;

packaging an instrument panel component within the parametric design of the instrument panel support structure;

determining if the parametric design of the instrument panel support structure meets a predetermined criteria using a computer-aided analytical technique;

determining if the parametric design of the instrument panel support structure should be changed if the predetermined criteria is not met;

determining if a parameter should be changed if the parametric design of the instrument panel support structure should be changed; and

modifying the parameter if the parameter should be changed.